

Title (en)  
METHOD FOR GENERATIVE PRODUCTION OF COMPONENTS WITH HEATABLE CONSTRUCTION PLATFORM AND SYSTEM USED IN THIS METHOD

Title (de)  
VERFAHREN ZUM GENERATIVEN HERSTELLEN VON BAUTEILEN MIT HEIZBARER BAUPLATTFORM UND ANLAGE FÜR DIESES VERFAHREN

Title (fr)  
PROCEDE DE FABRICATION GENERATIVE DE COMPOSANTS A L'AIDE D'UNE PLATEFORME DE CONSTRUCTION POUVANT ETRE CHAUFFEE ET INSTALLATION POUR LEDIT PROCEDE

Publication  
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Application  
**EP 17700606 A 20170104**

Priority  
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Abstract (en)  
[origin: WO2017129381A1] The invention relates to a method for the generative manufacturing of a component (21) (for example by selective laser melting) and an apparatus (11) which is suitable for implementing this method. In the apparatus, the component (21) is produced for example in a powder bed (13) by means of an energy beam (20), wherein the component (21) under construction is brought to a required temperature level by a heating device (24) integrated in a building platform (14). According to the invention, the heating power of the heating device (24) is lowered more and more as the process progresses, and so a reference temperature (Tr) is maintained at the surface of the component (21) under construction. According to the invention, allowance is made here for the fact that the energy beam (20) introduces into the component (21) under construction an amount of heating power that cannot be dissipated quickly enough because of the thermal resistance of the component. The adaptation of the heating power is advantageously performed by means of an open-loop and/or closed-loop control (26).

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Citation (examination)  
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• WO 2008143106 A1 20081127 - PANASONIC ELEC WORKS CO LTD [JP], et al  
• DE 102013001374 A1 20140731 - CL SCHUTZRECHTSVERWALTUNGS GMBH [DE]  
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